

TEAM DNR's Maryland Streams I & II Program

Classroom Preparation

Elementary & middle school teachers are recommended to prepare their students for Basic Streams Program. Students should:

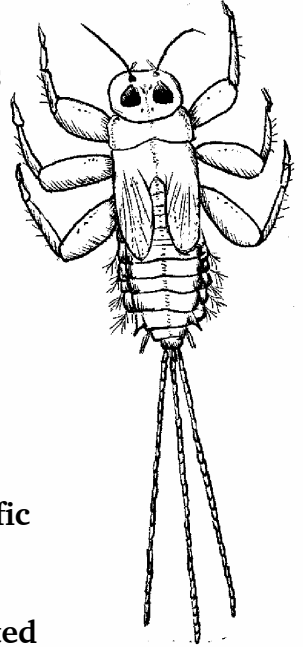
- Acquire a basic understanding of the watershed concept.
- Utilize TEAM DNR's 'Watershed' Program
- Project WET activities "Capture, Store, and Release" and "Branching Out!"
- Project WET Aquatic activities "Riparian Retreat"

Have a working knowledge of the following terms or concepts:

- *Watershed* – Land from which all the water drains to a specific point.
- *Invertebrate* – An animal without a backbone.
- *Benthos* – Plants and animals living on, in or closely associated with the bottom of a water body.
- *Macro* – Visible to the naked eye.
- *Micro* – Not visible to the naked eye
- *Habitat* – The place where an organism naturally grows or lives.

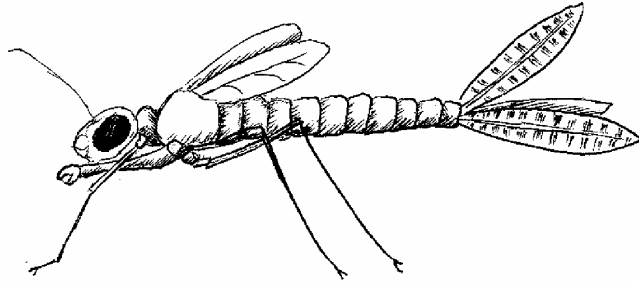
If the class requests the optional Outdoor Streams Program, each student should have a working knowledge of specific water quality sampling parameters including:

- *Dissolved Oxygen (DO)* – The amount of oxygen dissolved in water.
- *Metamorphosis* – A period during the life cycle of many invertebrates when an individual body changes significantly from one form to another.
- *Nymph* – Immature or pre-adult form of certain insects. It is usually similar to the adult form and will develop directly into an adult.
- *Pupae (pl.), Pupa* – a developmental stage in an insect's life cycle between the larvae and adult forms.
- *Anaerobic* – conditions that exist in the absence of air or free oxygen.
- *Aerobic* – conditions that exist in the presence of air or free oxygen.
- *Detritus* – organic debris from decomposing plants and animals.



- ***Eutrophication*** – the process whereby a water body receives nutrients, resulting in increased algae and microscopic plant growth.
- ***Larvae (pl.), Larva*** – the pre-adult form of an insect that differs distinctly from the adult form.

Definitions derived from the *Field Manual for Global Low-Cost WATER QUALITY MONITORING* by William Stapp & Mark Mitchell.



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